July 1, 1930. R. HALL 1,769,342

HOSE REEL

Filed April 18, 1928

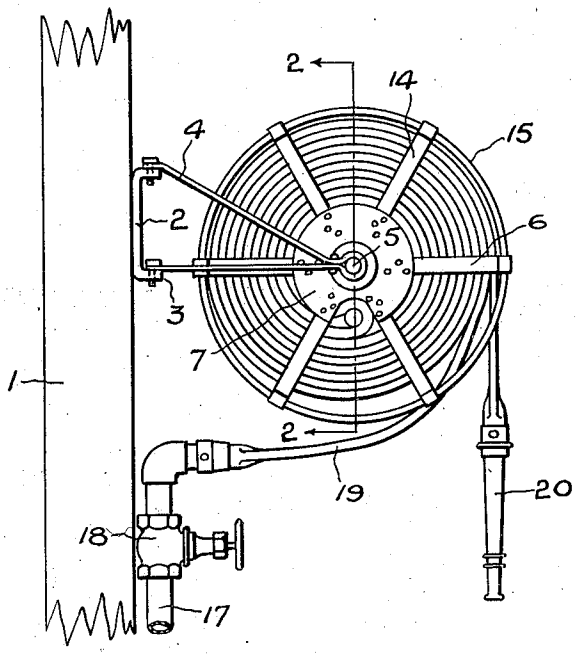


Fig. 1

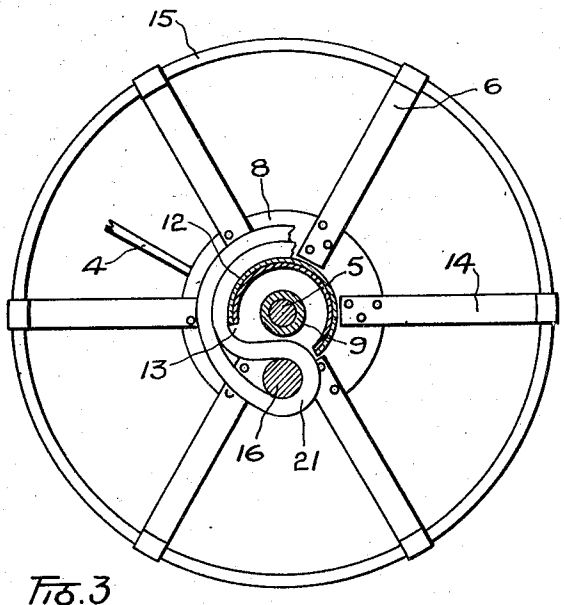


Fig. 3

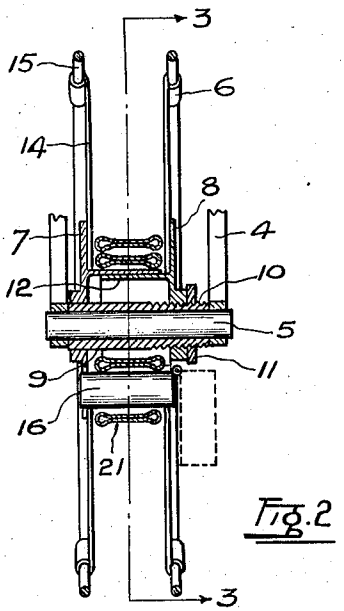


Fig. 2

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UNITED STATES PATENT OFFICE

ROBERT HALL, OF OCEAN FALLS, BRITISH COLUMBIA, CANADA

HOSE REEL

Application filed April 18, 1928. Serial No. 271,002.

My invention relates to improvements in hose reels which are adapted for use with either round or collapsible hose. In hose reels of usual construction the turning on of the water to the hose before it is removed from the reel usually results in that portion of the hose which is being filled jamming the remaining portion on the rack, so that it cannot be freely removed therefrom. It is with a view to overcoming these objections and also to provide means whereby the initial water pressure will discharge the hose from the reel that my reel is devised.

The invention consists essentially of a reel comprising a pair of opposed side members having a common centre drum, which side members are adapted for lateral adjustment to conform to varying widths of hose and means for releasably securing the centre of a length of hose to the drum, as will be more fully described in the following specification and shown in the accompanying drawings, in which:—

Fig. 1 is a general view of the invention.

Fig. 2 is a sectional view of the reel taken on the line 2—2 of Figure 1.

Fig. 3 is a sectional view of the reel taken on the line 3—3 of Figure 2.

In the drawings like characters of reference indicate corresponding parts in each figure.

The numeral 1 indicates a post or wall upon which a bracket 2, having upper and lower apertured lugs 3, is secured. Swingingly connected to the lugs of the bracket 2 is a forked hanger 4 which carries between its outer end a fixed shaft 5.

The reel, generally indicated by the numeral 6, consists of a pair of opposed circular side plates respectively indicated by the numerals 7 and 8. The side plate 7 is concentrically secured upon a sleeve 9 which is provided with a relatively long thread 10 at its free end. The side plate 8 is internally threaded and is adjustably fitted upon the thread 10 of the sleeve 9 and is secured in adjusted position by a locknut 11. The side plates 7 and 8 are fitted with annular rings or drums 12 from which a portion is cut away to define a gap 13. The drums vary in size so that one may telescope into the other as shown in Figures 2 and 3. Spokes 14 extend radially from each of the side plates 7 and 8 and to the free end of these, rims 15 are secured which serve as a guide to the hose as it is being wound upon the reel. A cylindrical block 16 is hingedly mounted upon one of the side plates 7 and 8 which lies when in normal position transversely of the drums 12 and longitudinally of the gap 13 therein, and is capable of being swung outwardly between a pair of spokes 14 into the position shown in dotted line in Figure 2.

The numeral 17 indicates a stand pipe having a water valve 18 from which a hose 19 fitted with a nozzle 20 extends. It will be obvious that the reel could be fitted to wheeled or other frames for use in gardens, lawns and the like.

The reel is used in the following manner. The hose 19 is preferably provided with some mark to indicate the centre of its length and when about to place it upon the reel, it is taken at this point and bent in the form of a loop as at 21. This loop is placed partly within the gap 13 and whilst so doing the block 16 is inserted into the loop and disposed in normal position as shown. The reel is then rotated to wind the hose in two parallel volutes around the drums 12 until all but the extremities remain. When using the hose for fire purposes, if the valve 18 is opened prior to the hose being run out, the water pressure in expanding each alternate layer of hose, causes the reel to be rotated and to deliver the filled portion of the hose in the same direction as the nozzle 20 is carried. When the final wrapping of the hose is unwound, the block 16 swings upon its hinge and releases the loop that the hose may fall to the floor and be run out to its desired place.

What I claim as my invention is:

A hose reel comprising a pair of side plates, a drum section extending inwardly from the central portion of one of said plates and telescoping a correspondingly arranged drum section extending inwardly from the central section of the other plate, a hollow

sleeve having one end secured in a central opening formed in one of said plates and the other end threaded through a central opening formed in the other plate, said latter plate being adjustable on the sleeve by reason of its threaded connection therewith so as to vary the distance between the plates, a lock nut threaded on said sleeve and engageable with the adjustable plate to hold the latter in adjusted position and a hose engaging member hinged to one of said plates and movable to a postiion parallel with said drum sections.

Dated at Ocean Falls, B. C., this 22d day of March, 1928.

ROBERT HALL.